

HELEN BOMBAY LOFFLAND

EDUCATION

Bachelor of Science 1991, *Wildlife Biology*
University of California, Davis

Masters of Science 1999, *Biological Conservation*
California State University, Sacramento

EMPLOYMENT

Meadows Species Specialist – The Institute for Bird Populations (2010-present)
Independent Consultant - Pioneer, California (1999–2011)
Wildlife Biologist, KDH Environmental Services - West Point, California (2000-2007)
Ornithologist, California State University Foundation - Sacramento, California (1997-2001)
Part-time Faculty, California State University - Sacramento, California (1998)
Research Assistant, San Francisco State Univ., Sierra Nevada Field Campus (1995-1999)
Wildlife Biologist (GS-486-5/7/9), Eldorado National Forest - Placerville, CA (1991-1996)
Research Assistant (botany), University of California - Davis, CA (1989-1990)
Biological Technician (fisheries), Eldorado National Forest - Georgetown CA (1989)
Research Assistant (entomology), University of California - Davis, CA (1987-1989))

RELEVANT EXPERIENCE

Sierra Nevada Meadow Restoration & Avian Monitoring * Jan 2010 – present

Project Leader. *Developed and currently implementing an avian monitoring protocol for meadow restoration projects throughout the Sierra Nevada. Developed site specific avian assessments and provided input to proposed restoration plans for Hope Valley Ackerson Meadow, Lacey Valley. Completed an updated status report for Willow Flycatcher occupancy patterns in the Sierra Nevada.* The Institute for Bird Populations, Point Reyes Station, CA

Sierra Nevada Willow Flycatcher Demography Study * 1997 - 2011

Project Coordinator (1997 - 2003); Data Manager (2004 - 2011)

*Designed and implemented long-term demography study of the willow flycatcher in the central Sierra Nevada. Conducting targeted surveys for willow flycatchers, monitoring nest success, recruitment and survival. Conducted detailed habitat use analyses and completed master's thesis entitled "Scale perspectives in habitat selection and reproductive success for willow flycatchers (*Empidonax traillii*) in the central Sierra Nevada, California". Currently assist in project design, report preparation and data management and analysis.* California State University Foundation, Sacramento; UCSD White Mountain Research Station; Texas A & M University

Sierra Nevada Willow Flycatcher Conservation Assessment * 2001 - 2002

Ornithologist. *Co-Authored a conservation assessment documenting what is known and unknown about willow flycatchers in the Sierra Nevada Bioregion.* Foster Wheeler Environmental Corporation for U.S. D. A. Forest Service Region 5.

F.E.R.C. Hydroelectric Relicensing and Lower Stanislaus River Restoration * 2000 - 2006

Wildlife Biologist. *Surveyed reservoir and canal areas in Amador and Alpine Counties for California spotted owls, northern goshawks, peregrine falcons, and bald eagles. Conducted general avian and species specific surveys along the lower Stanislaus River.* KDH Environmental.

Sierra Nevada Conservation Framework * 2000 - 2001

Ornithologist. *Co-authored environmental consequences and effects analysis for bioregional management decisions for willow flycatchers in the Sierra Nevada, and provided expert input on willow flycatcher ecology and distribution. Compiled current and historical location data for Sierra Nevada-wide willow flycatcher relational database.* Independent Consultant to U.S.D.A. Forest Service, Region 5.

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RELEVANT EXPERIENCE (Continued)

Montane Meadow Songbird Monitoring * 1995 - 1999

Project Leader. *Developed and supervised two mist netting stations monitoring avian productivity and survivorship for montane meadow associated passerine bird species using M.A.P.S protocol. Compiled insect collection for study sites.* San Francisco State University, Sierra Nevada Field Campus

Ornithology Laboratory * 1998

Part-time Faculty. *Instructor for undergraduate Ornithology laboratory course. Prepared lectures on bird identification, led field trips, and organized museum specimens for laboratory sessions.* California State University, CA

Cosumnes River Forest Riparian Bird Surveys * 1997

Project Leader. *Supervised collection of distribution and abundance data for birds in forested riparian areas in the middle and upper Cosumnes River Watershed using standardized area search methodology.* KDH Environmental

U.S. Forest Service - Wildlife Surveys/ N.E.P.A Documentation * 1991 - 1996

Wildlife Biologist. *Developed, supervised, and conducted surveys for a variety of wildlife species (California Spotted Owl, Northern Goshawk, American Marten, Willow Flycatcher) and prepared N.E.P.A. documentation for a variety of recreation and grazing related projects.* Eldorado National Forest.

U.C. Davis- Botany and Butterfly surveys * 1987-1989

Research Assistant. *Conducted meadow restoration related Russian thistle surveys and experiments in Yosemite Valley. Completed butterfly collections in alfalfa fields in Sierra and Shasta valleys.*

PUBLICATIONS

Bombay, H.L., T.M. Benson, B.E. Valentine, and R.A. Stefani. 2003. A willow flycatcher protocol for California. USDA Forest Service, Region 5. Vallejo, California, USA.

Bombay, H.L., M.L. Morrison, and L.S. Hall. 2003. Scale perspectives in habitat selection and reproductive success for willow flycatchers (*Empidonax traillii*) in the central Sierra Nevada, California. Pages 60-72 in M. K. Sogge, B. E. Kus, M. J. Whitfield, and S. J. Sferra, editors. Ecology and conservation of the Willow Flycatcher. Studies in Avian Biology 26.

Mathewson H. A, M. L. Morrison, H. L. **Loffland**, P. Brussard. 2012. Ecology of Willow Flycatchers (*Empidonax traillii*) in the Sierra Nevada, California: effects of meadow characteristics and weather on demographics. Ornithological Monographs. Vol 75:1-32.

Cain, J.W., K. S. Smallwood, M.L. Morrison, and **H.L. Loffland**. 2006. Influence of mammal activity on nesting success of passerines. Journal of Wildlife Management 70(2):522-531.

Cain, J.W., M.L. Morrison, and **H.L. Bombay**. 2003. Predator activity and nest success of willow flycatchers and yellow warblers. Journal of Wildlife Management 67:600-610.

Green, G.A., **H.L. Bombay**, and M.L. Morrison. 2003. Conservation assessment of the willow flycatcher in the Sierra Nevada. USDA Forest Service, Region 5, Vallejo, California

Stefani, R.A., **H.L. Bombay**, and T.M. Benson. 2001. Willow Flycatcher. Pp. 143-195 in USDA Forest Service, Sierra Nevada Forest Plan Amendment Final Environmental Impact Statement, vol. 3, Ch. 3, Part 4.4. USDA Forest Service, Pacific Southwest and Intermountain Regions, Sacramento, CA 95814.

PROFESSIONAL AFFILIATIONS

The Wildlife Society

The Cooper Ornithological Society

The Xerces Society